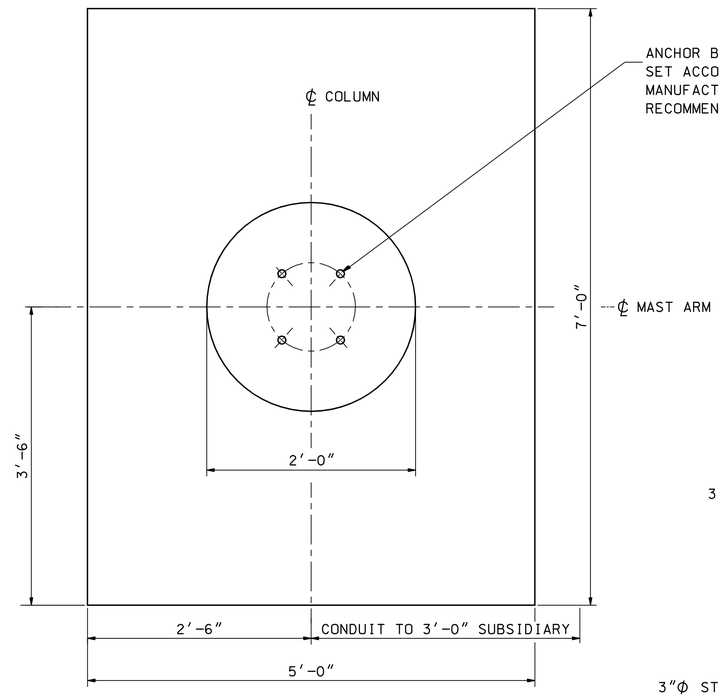
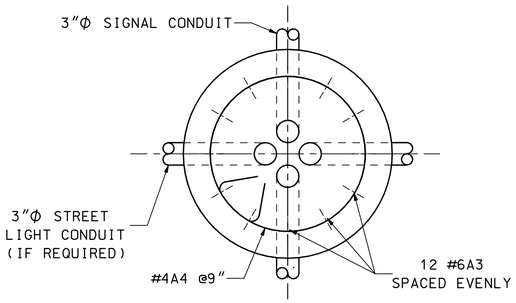
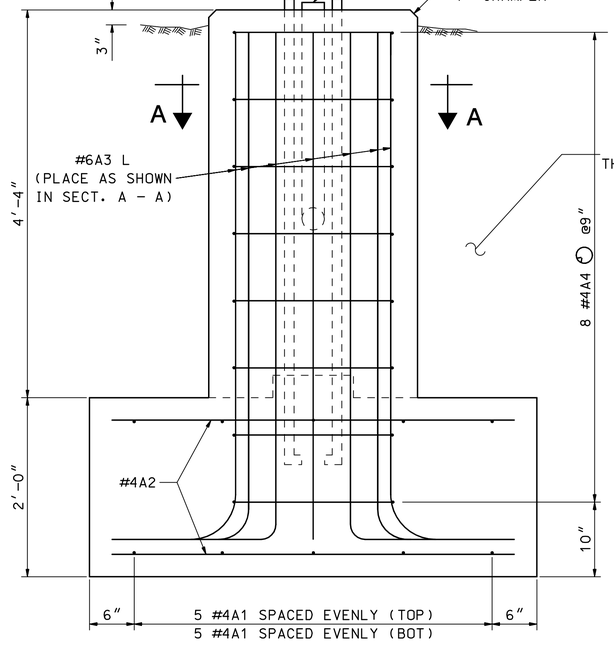
TRAFFIC SIGNAL MAST ARM FOUNDATION - TYPE 1A



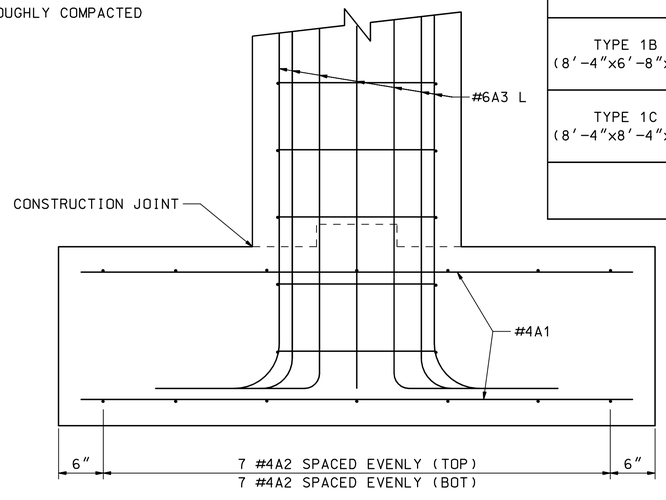
PLAN



SECTION A - A



ELEVATION



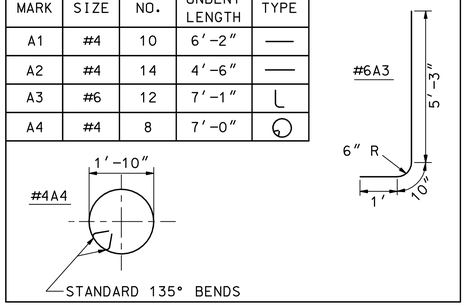
END ELEVATION

GENERAL NOTES (TYPE 1 FOOTING)

1. SEE SHEET 2 OF 2 FOR DETAILS OF TYPE 1B & TYPE 1C FOOTINGS.
2. ALL REINFORCING STEEL SHALL BE EITHER GRADE 40 OR 60.
3. ALL REINFORCING STEEL SHALL BE A MINIMUM 3" CLEAR.
4. THE TYPE 1 SPREAD FOOTING SHALL BE POURED IN PLACE ON UNDISTURBED MATERIAL. THE MAXIMUM DESIGN SOIL PRESSURE IS 1 1/2 TONS/SF. IF THE SOIL IS NOT CAPABLE OF A BEARING PRESSURE OF 1 1/2 TONS/SF, THE ENGINEER SHALL ORDER REMOVAL OF THE WEAK FOUNDATION MATERIAL AND PLACEMENT OF STRUCTURAL FILL, ITEM 508. COST OF ITEM 508 SHALL BE PAID AS EXTRA WORK. IF SUITABLE SOILS ARE NOT FOUND WITHIN A REASONABLE DISTANCE BELOW THE BOTTOM OF THE FOOTING, THE ENGINEER SHALL REQUEST A REDESIGN.
5. WHERE LEDGE IS ENCOUNTERED, EXCAVATION SHALL STILL EXTEND TO LIMITS SHOWN.

REINFORCING SCHEDULE

MARK	SIZE	NO.	UNBENT LENGTH	TYPE
A1	#4	10	6'-2"	—
A2	#4	14	4'-6"	—
A3	#6	12	7'-1"	L
A4	#4	8	7'-0"	○



TYPICAL QUANTITIES PER BASE

ITEM NO.	DESCRIPTION	QUANTITY
520.21 *	CONCRETE CLASS B (FTGS)	3.1 CY
544 *	REINFORCING STEEL	249 LB
206.1 *	COMMON STRUCTURE EXCAVATION	14.2 CY

* ITEM NUMBERS SHOWN ARE FOR SPECIFICATION REFERENCE ONLY. NO SEPARATE PAYMENT WILL BE MADE FOR THESE ITEMS.

STANDARD SPREAD FOOTINGS FOR TRAFFIC SIGNALS

DETERMINATION OF REQUIRED FOOTING SIZE

FOOTING SIZE	CASE 1 (MAX. h=40'-0", MAX. h1=22'-0") SHAPE	CASE 1 MAX. LENGTH OF ONE MAST ARM WITH ONE LUMINAIRE ON THE SAME POLE (L)	CASE 1 MAX. NUMBER OF SIGNALS FOR CASE 1	CASE 2 (MAX. h1=22'-0") SHAPE	CASE 2 MAX. LENGTH OF ONE MAST ARM WITH NO LUMINAIRE (L)	CASE 2 MAX. NUMBER OF SIGNALS FOR CASE 2
TYPE 1A (6'-8"x5'x2')	h h1 L	20'	2	h1 L	30'	3
TYPE 1B (8'-4"x6'-8"x2')	h h1 L	30'	3	h1 L	50'	4
TYPE 1C (8'-4"x8'-4"x2')	h h1 L	50'	3			

NOTE: COMBINATIONS OTHER THAN THOSE SHOWN IN THE ABOVE CHART SHALL NOT BE USED WITHOUT DESIGN APPROVAL.

TRAFFIC SIGNAL STANDARD

TRAFFIC SIGNAL MAST ARM FOUNDATION - TYPE 1A

STANDARD NO. TS-1

REVISION DATE
07-13-01
02-26-10

*.DGN FILE NAME
TS-1

STANDARD PLANS

New Hampshire DOT Department of Transportation

STANDARD NO. TS-1